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# THE BRYOLOGIST

VOL. XXV

JANUARY, 1922

No. 1

## LICHENS OF THE LAKE GEORGE REGION

STEWART H. BURNHAM

The region covered includes the counties of Washington, Warren, and Saratoga, New York. I collected my first lichens in 1892: these were determined by Dr. John W. Eckfeldt. Specimens collected during the last fifteen years have been determined by Dr. Bruce Fink, the late Dr. L. W. Riddle, and Mr. G. K. Merrill.

A few botanists have collected lichens in the region. Dr. E. A. Burt made the major part of his collections at East Galway, Saratoga county from 1892 to 1895; these are preserved in his herbarium. Mr. Frank Dobbin made a large collection of lichens at Shushan, Washington county, specially during the years 1906 and 1907; these are at least partly preserved in his herbarium. Dr. E. C. Howe collected lichens at Fort Edward during the years 1867 and 1868: some of these are yet to be found in the New York State Herbarium. Dr. Smith Ely Jelliffe, collected many lichens about Huletts Landing, Lake George, from 1889 to 1892; these are preserved in his herbarium in New York City. Dr. Chas. H. Peck collected lichens in the area covered, and presumably some of these were determined by Dr. Eckfeldt; these are preserved in the New York State Herbarium.

The nomenclature and sequence of names, conforms as closely as possible with that used by Dr. A. Zahlbruckner in his work on "Ascolichenes," in Engler and Prantl, "Die Natürlichen Pflanzenfamilien."

### LIST OF SPECIES

1. *Verrucaria muralis* Ach. Limestone rocks and ledges; also on claystones in fields at Vaughns and east of Tripoli. Several collections have been determined by Mr. G. K. Merrill: and specimens are preserved in the State Herbarium. N. Y. State Mus. Bull. 167: 33. 1913.
2. *Verrucaria rupestris* Schrad. On small loose stones in meadows at Vaughns, Oct. 16, 1913. Determined by Mr. Merrill who says, "*Verrucaria rupestris* is where I have always placed my Knox county, Maine, specimens of this plant. Mr. Willey identified the same thing on shell found near the sea as *Verrucaria nigrescens* Pers.: but that species has a distinct thallus and in my experience is never without such. In your specimens the thallus is inconspicuous and it would make excellent *Verrucaria muralis*, if it were not for the fact that it fits its substratum."

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The November number of THE BRYOLOGIST was published Feb. 27, 1922.

3. *Dermatocarpon aquaticum* (Weis.) Zahlbr. On rocks in upland creeks and upland brooks. Cold Spring, South Bay; southern W. Fort Ann. Specimens have been verified by Mr. Merrill. (*Endocarpon fluviale* (Weber) DC.).
4. *Dermatocarpon hepaticum* (Ach.) Th. Fr. Thin limestone soil, specially about old quarries. Vaughns; determined by Mr. Merrill.
5. *Dermatocarpon miniatum* (L.) Th. Fr. Fort Edward (E. C. Howe); reported in N. Y. State Cab. Rep. 22: 68. 1869, as *Endocarpon miniatum* var. *Muhlenbergii* Nyl. Calcareous cliffs, Haynes hill, May 3, 1913; determined by Mr. Merrill.
6. *Dermatocarpon miniatum complicatum* (Sw.) Th. Fr. Exposed granitic rocks in upland regions. Dresden Station (Clemons), (C. H. Peck) in State Herbarium; Huletts Landing (S. E. Jelliffe). Southern W. Fort Ann; verified by Mr. Merrill. This is distinguished from the species by having the thallus deeply divided into smaller lobes.
7. *Pyrenula leucoplaca* (Wallr.) Koerb. On trunk of *Acer saccharum* in Vaughns schoolhouse woods, April 8, 1907.
8. *Pyrenula nitida* (Weig.) Ach. Fort Edward (Howe); East Galway on trunks of *Fagus grandifolia* (E. A. Burt); Shushan on trunks of *Fagus*, *Quercus* and *Acer* (F. Dobbin). Peaked Mt., southern W. Fort Ann, April 14, 1918, on trunks of *Quercus-Prinus*; determined by Mr. Merrill.
9. *Trypethelium virens* Tuck. On trunks of *Fagus grandifolia* at E. Galway (Burt) and west of Tripoli; Shushan on trunks of *Betula lenta* (Dobbin).
10. *Mycoporum pycnocarpum* Nyl. On trunk of living maple in Rich's swamp southwest of Shushan, May 20, 1906
11. *Calicium Curtisi* Tuck. E. Galway on *Rhus glabra* (Burt).
12. *Calicium parietinum* Ach. Shushan on white birch, May 4, 1907 (Dobbin) determined by Dr. Bruce Fink.
13. *Calicium praecedens* Nyl. E. Galway on *Alnus* (Burt).
14. *Calicium sphaerocephalum* (L.) Wahl, On trunk of *Tsuga canadensis* at Vaughns; determined by Dr. John W. Eckfeldt (*Calicium trachelinum* Ach).
15. *Calicium subtile* Pers. Johnsburg on hardwood and Mechanicsville on *Acer* and *Fraxinus* (Peck).
16. *Coniocybe furfuracea* (L.) Ach. Shushan in Rich's swamp at roots of *Picea* and *Acer* (Dobbin); talus, foot of Diameter at South Bay, Aug. 21, 1906; Vaughns on *Tsuga canadensis* and *Acer*; rocks, Anaquassacook hills, Shushan, May 19, 1906.
17. *Coniocybe pallida* (Pers.) Fr. Bark of oak trees at Fort Edward, very rare (Howe), N. Y. State Cab. Rep. 22: 68. 1869.
18. *Sphinctrina turbinata* (Pers.) Fr. On *Pertusaria communis* and dry fungus at Fort Edward (Howe), N. Y. State Cab. Rep. 22: 95. 1869.
19. *Cyphelium tigillare* (Ach.) Th. Fr. On old wood, Gansevoort (Peck). (*Acolium tigillare* (Ach.) S. F. Gray).

20. *Arthonia lecideella* Nyl. On dead branches and trunks of *Salix nigra* and *Ulmus americana*, N. Beaver creek at Vaughns, March 6, and April 7, 1914; determined by Mr. Merrill.
21. *Arthonia quintaria* Nyl. Shushan on bark of *Juglans cinerea*, Aug. 9, 1906; determined by Mr. Merrill; also on bark of *Quercus*, May 14, 1906 (Dobbin); reported in N. Y. State Mus. Bull. 167: 23. 1913.
22. *Arthonia radiata* (Pers.) Ach. On bark of *Carya ovata* and *Tilia americana*, Shushan, Aug. 9, 1806; determined by Mr. Merrill; also bark of *Fagus grandifolia*, Shushan, Apr. 3 & 9, 1906 (Dobbin). Reported in N. Y. State Mus. Bull. 167: 23. 1913. (*Arthonia astroidea* Ach.)
23. *Arthothelium spectabile* (Flot.) Mass. On living trunks of *Acer saccharum* Apr. 16, 1914, and *Tilia americana* June 3, 1906, at Vaughns; determined by Dr. Fink and by Mr. Merrill. Bog north of Clarks Pond, west of Shushan on *Tilia*, Apr. 16, 1914. (*Arthonia spectabile* Flot.).
24. *Opegrapha varia* Pers. Trees at Fort Edward (Howe) N. Y. State Cab. Rep. 22: 68. 1869. Bark of *Ulmus americana*, N. Beaver creek at Vaughn, Sept. 11, 1913; determined by Dr. Fink. Trunks of *Tilia americana*, Anaquassacook hills, May 19, 1906.
25. *Opegrapha varia notha* (Ach.) Fr. Warrensburg on bark of *Acer rubrum* (Peck); trunks of *Acer rubrum*, bog north of Clarks Pond, Sept. 11, 1909.
26. *Graphis scripta* (L.) Ach. Trunks of trees specially of the frondose species; common.
27. *Graphis scripta pulverulenta* (Pers.) Ach. West of Tripoli on *Juglans cinerea*, Dec. 5, 1914; determined by Mr. Merrill.
28. *Graphis scripta recta* (Humb.) Nyl. Huletts Lg. (Jelliffe).
29. *Graphis scripta stellata* (Leight.) Mudd. On bark of *Nemopanthus mucronata*, wet place in woods south of Sugar Loaf Mt., Nov. 19, 1915; determined by Mr. Merrill.
30. *Conotrema urceolatum* (Ach.) Tuck. Huletts Lg. (Jelliffe); E. Galway on birch trunks (Burt); Shushan on *Betula lutea*, May 4, 1907 (Dobbin); Anaquassacook hills on *Carya ovata*, May 19, 1906.
31. *Diploschistes scruposus* (Linn.) Norm. Shushan on slaty rocks (Dobbin); northwest Hartford; common at Vaughns on sandstone rocks, which it softens. It sometimes grows over mosses in rocky places. (*Urceolaria scruposa* (Linn.) Ach.)
32. *Microphiale diluta* (Pers.) Zahlbr. East of Tripoli, at base of tree in swampy woods, Apr. 10, 1914; determined by Mr. Merrill. Copse in wet place, near Devines woods at Vaughns, Apr. 18, 1914. (*Gyalecta Pineti* (Schrad.) Tuck.).
33. *Microphiale lutea* (Dicks.) Stein. Peaked Mt., May 26, 1917: falls in West brook on old humus and rotten logs, Sept. 11, 1918: and east of Thompsons gravel-bed on bark of *Thuja occidentalis*, Apr. 29, 1917, southern W. Fort Ann; determined by Mr. Merrill.

34. *Lecidea albocaerulescens* (Wulf.) Ach. On very hard limestone rocks, Curtis hill east of Fort Ann; southern W. Fort Ann. Vaughns, Dec. 6, 1914; determined by Mr. Merrill.
35. *Lecidea atrofusca* (Flot.) Mudd. Wiggins iron mine on mossy rocks, W. Fort Ann, Nov. 22, 1915; determined by Mr. Merrill who says, "this is a plant that I was first to differentiate in this country, but without doubt it has long been known by some other name probably *Lecidea sanguinea*." (*Biatora atrofusca* Flot.).
36. *Lecidea coarctata* (Sm.) Nyl. On small loose stones in meadow at Vaughns, Nov. 16, 1913; determined by Mr. Merrill who says, "a very obscure thing, but on the evidence of the spores and reaction with iodine, seems to belong to *Biatora coarctata*. It is decidedly atypical however."
37. *Lecidea contigua* (Hoffm.) Fr. On rocks. Lake George to Warrensburg; falls of West brook, W. Fort Ann; Crescent; Shushan and Anaquassacook hills. Specimens collected on rocks at southern bare of Sugar Loaf Mt., Nov. 13, 1915 were determined by Mr. Merrill who says, "Tuckerman would call the thing *L. contigua* and I have specimens from Europe similar, and so called. My own examples of *L. contigua* have a different thallus and have been verified by one of the noted lichenists of Europe. We will have to call it *L. contigua* for the present, and until such a time as *Lecidea* may be revised."
38. *Lecidea elaeochroma* (Ach.) Tayl. Vaughns on bark of *Carya ovata*, May 11, 1907; determined by Dr. Fink. (*Lecidea enteroleuca* Ach.)
39. *Lecidea granulosa* (Ehrh.) Schaer. Sugar Loaf Mt., determined by Mr. Merrill, and Peaked Mt., southern W. Fort Ann; old fence rail at Vaughns, determined by Mr. Merrill; Shushan at base of an old oak tree (Dobbin) and Anaquassacook hills near Peaked Rock on humus covered rocks.
40. *Lecidea platycarpa* Ach. Huletts Lg. (Jelliffe); Shushan (Dobbin); northwest Hartford; southern W. Fort Ann; Vaughns. A common lichen on sandstone, limestone and granitic rocks; specimens have been determined by both Dr. Fink and Mr. Merrill. Reported in N. Y. State Mus. Bull. 122: 22. 1908.
41. *Lecidea rivulosa* Ach. On rocks. Lake George to Warrensburg, Aug. 31, 1906; along Battenkill River south of Shushan, June 15, 1907; bank of Mohawk River, Crescent to Waterford, May 30, 1906.
42. *Lecidea Russellii* Tuck. Shushan on rocks with *Placynthium nigrum*, Apr. 30, 1906 (Dobbin). Limestone rocks in stonewall north of Vaughns, Apr. 11, 1915; determined by Mr. Merrill who says, "the *Biatora* is a thing that occurs here (in Maine) and while it differs from the western examples of the species to a marked degree, there is really no other place to assign it. Both your specimens and my own are without apothecia."
43. *Lecidea russula* Ach. On living trees in Rich's swamp near Shushan, May 20, 1906.

44. *Lecidea sanguineoatra* (Wulf.) Ach. On dead mosses, decaying stumps and earth mixed with humus. Shushan (Dobbin); determined by Dr. Fink. Hague; southern W. Fort Ann; several collections determined by Mr. Merrill.
45. *Lecidea uliginosa* (Schrad.) Ach. Sandy soil, Crescent, May 30, 1906; sandy fields northeast of Tripoli among *Ceratodon*, Dec. 13, 1914, "a few scattered apothecia reminding one of *Biatora uliginosa*" according to Mr. Merrill.
46. *Lecidea vernalis* (Schrad.) Ach. Rocks in woods southeast of Tripoli, Dec. 2, 1914; mossy rocks, Haynes hill, June 30, 1916; both collections determined by Mr. Merrill.
47. *Lecidea viridescens* (Linn.) Ach. Much decayed coniferous wood and stumps, southern W. Fort Ann; specimens have been determined by Mr. Merrill.
48. *Mycoblastus sanguinarius* (L.) Th. Fr. Granitic rocks, summit of Black Mt., 2,665 ft. Aug. 19, 1909; determined by Dr. L. W. Riddle. (*Heterothecium sanguinarium* (L.) Flot.).
49. *Catillaria atropurpurea* (Schaer.) Th. Fr. Shushan on *Pinus Strobus* and *Carpinus caroliniana* (Dobbin), Anaquassacook hills on *Carya ovata* and *Betula lutea*, and bog north of Clarks Pond on trunks of trees. Vaughns.
50. *Catillaria intermixta* (Nyl.) Merrill & Burnh., n. comb. E. Galway on large trunks of *Fagus grandifolia*, Aug. 15, 1893 (Burt); Shushan, Sept. 1907 (Dobbin); determined by Dr. Fink. (*Biatora Laureri* (Hepp) Tuck.).
51. *Catillaria prasina* (Fr.) Th. Fr. A greenish lichen on bark of *Acer saccharum* at Shushan, March 11 & 26, 1907 (Dobbin); determined by Dr. Fink. Reported in N. Y. State Mus. Bull. 122: 17. 1908, and Mycologia 11: 297. Nov. 1919.
52. *Bacidia atosanguinea* (Schaer.) Anzi. On trunks of *Betula lutea*, Oct. 20, 1914 & June 12, 1915, and trunks of *Quercus Prinus*, Apr. 2, 1918, near Tripoli; these collections determined by Mr. Merrill.
53. *Bacidia fuscorubella* (Hoffm.) Arn. Shushan, May 20, 1907 (Dobbin); determined by Dr. Fink. Tripoli pond, on *Fraxinus nigra*, June 20, 1914; determined by Mr. Merrill. On trunks of *Acer saccharum* at Vaughns, June 6, 1909; determined by Dr. Riddle.
54. *Bacidia lignaria* (Ach.) Zahlbr. Baker's ledge on mosses, S. Beaver creek, east of Vaughns, Apr. 15, 1917; Glenwood brook on rocks, Vaughns, Apr. 21, 1917; both collections determined by Mr. Merrill.
55. *Bacidia luteola* (Schrad.) Mudd. On bark at Fort Edward (Howe), N. Y. State Cab. Rep. 22: 66. 1869 as *Biatora rubella* Tuck. Vaughns on trunks of *Carpinus caroliniana*, Aug. 19, 1907; trunks of *Ulmus americana*, March 29, 1914, determined by Mr. Merrill.

56. *Bacidia muscorum* (Sw.) Mudd. Limestone ledge west of Vaughns school-house on mosses, April 16, 1911 & March 23, 1915; determined by Mr. Merrill, March 12, 1912, who says, "I have never before examined it from America."
57. *Bacidia sabuletorum* (Flk.) Zahlbr. Hague on mossy trunks of *Thuja occidentalis*; determined by Dr. Riddle. Near Tripoli and at Vaughns, not uncommon on mossy limestone rocks; specimens have been determined by Mr. Merrill. (*Bialora hypnophila* (Turn.) Tuck.)
58. *Bacidia Schweinitzii* (Tuck.) Fink. On trees, Fort Edward (Howe); E. Galway on trunks of *Fagus grandifolia* (Burt); bark of *Thuja occidentalis* east of Thompsons gravel-bed, Apr. 29, 1917, determined by Mr. Merrill.
59. *Bacidia suffusa* (Fr.) Merrill & Burnh., n. comb. E. Galway on poplar bark (Burt). (*Bacidia fuscrobella suffusa* (Fr.) Fink).
60. *Bacidia trachona* (Ach.) Zahlbr. Calcareous rocks, Bacon hill, two miles east of Fort Ann, Apr. 22, 1917; determined by Mr. Merrill.
61. *Bacidia umbrina compacia* (Koerb.) Th.Fr. On decorticated branches of *Pinus Strobus* and *Tsuga canadensis*. East of Fort Ann; southern W. Fort Ann; Vaughns; determined by Mr. Merrill.
62. *Lopadium pezizoideum* (Ach.) Koerb. On bark of *Picea rubra*, summit of Black Mt., Aug. 19, 1909; determined by Dr. Riddle and reported in N. Y. State Mus. Bull. 150: 31. 1911. (*Heterothecium pezizoideum* (Ach.) Flot.).
63. *Rhizocarpon alboatrum* (Hoffm.) Th.Fr. Peaked Rock on trunks, May 19, 1906; determined by Dr. Fink.
64. *Rhizocarpon confervoides* DC. Stone walls at Vaughns; determined by Mr. Merrill; talus at foot of Diameter precipice, South Bay; Peaked Rock. (*Buellia petraea* (Wulf.) Tuck. in part).
65. *Baeomyces roseus* Pers. Baker's gorge down S. Beaver creek, east of Vaughns on clayey soil, Aug. 12, 1899, & Nov. 15, 1914; Anaquassa-cook hills on earth, May 19, 1906 (young); along Battenkill River south of Shushan, Jan. 19, 1913 (young).
66. *Pilophoron cereolum* (Ach.) in Tuckerman's sense, f. *fibula* Tuck. On sandstone rocks, Vaughns, Aug. 23, 1906, sterile; determined by Dr. Fink. (*Pilophorus cereolus* (Ach.) Stizenb.).
67. *Cladonia alpestris* (L.) Rabenh. Summit of Black Mt.; foot of Diameter precipice, South Bay; Saddle Mt., Fort Ann mountains; north of New Michigan Pond, W. Fort Ann; Curtis hill, east of Fort Ann; Ballston Lake.
68. *Cladonia apolepta* (Ach.) Fink. Along West brook, W. Fort Ann on old wood in moist places, Aug. 20, 1907; determined by Dr. Fink as *C. fimbriata coniocraea* (Flk.) Wainio; but reported by Dr. Fink as *Cladonia apolepta* (Ach.) in Mycol. 11: 299, Nov. 1919.
69. *Cladonia bacillaris* Nyl. The f. *clavata* (Ach.) Wainio, on ground at Shushan, summer 1907 (Dobbin); determined by Dr. Fink.

70. *Cladonia caespiticia* (Pers.) Flk. (E. Galway) N.Y. (Burt); reported by Dr. Fink in THE BRYOLOGIST 9: 90. Nov. 1906. Shushan on sandstone, Apr. 5, 1907 (Dobbin).
71. *Cladonia cariosa cribosa* (Wallr.) Wainio. E. Galway at base of a stump (Burt); Gansevoort (Peck); Shushan on earth and sandstone boulder (Dobbin); Vaughns on loam and clay soil (plants sometimes reddish), specimens have been determined by Mr. Merrill.
72. *Cladonia coccifera* (L.) Willd. Vaughns on rocks in woods, Aug. 15, 1911; determined by Mr. Merrill. (*Cladonia cornucopioides* (Huds.) Fr.).
73. *Cladonia crispata* (Ach.) Tuck. A composite species. On earth and decaying wood; Hulett's Lg. (Jelliffe); Gansevoort and Ballston (Peck); Shushan (Dobbin); northern Washington county, determined by Dr. Eckfeldt.
74. *Cladonia cristatella* Tuck. Earth filled with humus and much decayed wood, specially coniferous; common. Easily recognized by its scarlet apothecia.
75. *Cladonia digitata ceruchoides* Wainio. Shushan on rotten stump and logs in Rich's swamp, May 4, 1907; determined by Dr. Fink and reported in N. Y. State Mus. Bull. 122: 13. 1908
76. *Cladonia fimbriata* (L.) Fr. A composite species. Shushan (Dobbin); northern Washington county; north of Glen Lake; Ballston Lake.
77. *Cladonia fimbriata Balfourii* (Cromb.) Wainio. On earth and rocks; near Tripoli, northeast of Thompsons gravel-bed; Vaughns. Determined by Mr. Merrill who said March 2, 1914, "only once before identified from America."
78. *Cladonia fimbriata fibula* (Ach.) Nyl. On earth filled with humus, east of Hadlock Pond; old logs of *Tsuga canadensis* and branches of *Juniperus communis* var. *depressa*; Fred Vaughn's woods, down S. Beaver creek; Vaughns.
79. *Cladonia fimbriata radiata* (Schreb.) Cromb. A reduced form, east base of Sugar Loaf Mt., Sept. 19. 1917; determined by Mr. Merrill.
80. *Cladonia fimbriata simplex* (Weis.) Wainio. Shushan on old logs, May 20, 1907 (Dobbin). East of Hadlock Pond, Nov. 24; 1915; determined by Mr. Merrill.
81. *Cladonia furcata* (Huds.) Schrad. Earth and about rocks; common.
82. *Cladonia furcata pinnata* (Flk.) Wainio. Southern W. Fort Ann; Vaughns; several collections determined by Mr. Merrill.
83. *Cladonia furcata pinnata* (Flk.) Wainio. The modification *truncata* Flk. in Hammond's hemlock loam pasture, north of Vaughns, May 17, Aug. 31 & Oct. 30, 1913; determined by Mr. Merrill.
84. *Cladonia furcata racemosa* (Hoffm.) Flk. Dresden Station (Peck); Hulett's Lg. (Jelliffe); southern W. Fort Ann; Vaughns; Shuihan and elsewhere; several collections determined by Mr. Merrill.
85. *Cladonia furcata subulata* Flk. Old pastures at Vaughns.



86. *Cladonia gracilis* (L.) Willd. A composite species found at Vaughns.
87. *Cladonia gracilis dilacerata* Flk. Hammond's pasture north of Vaughns, Oct. 9, 1910; determined by Dr. Riddle.
88. *Cladonia gracilis dilatata* (Hoffm.) Wainio. (E. Galway) N.Y. (Burt), reported by Dr. Fink in THE BRYOLOGIST 8: 39. May 1905. Vaughns. This includes much formerly known as *Cladonia gracilis hybrida* Schaer. in sense of Tuckerman.
89. *Cladonia gracilis floripara* Flk. Golden's hemlocks east of Tripoli, Nov. 9, 1913; Hammond's hemlock pasture, Sept. 23, 1913, determined by Mr. Merrill who says, "almost unknown in America."
90. *Cladonia macilenta* Hoffm. E. Galway on ground with *Cladonia cristatella*, Sept. 3, 1894 (Burt).
91. *Cladonia macilenta squamigera* Wainio. Old stumps of *Pinus rigida*, north-west of Tripoli, Nov. 7, 1915; determined by Mr. Merrill.
92. *Cladonia mitrula* Tuck. Shushan, Nov. 8, 1907 (Dobbin); east of Tripoli on earth, Nov. 14, 1909.
93. *Cladonia multiformis* Merrill. East of Tripoli on earth and about old coniferous stumps; about old stumps, bog south of Mud Pond, Pattens Mills; Vaughns and vicinity; several collections determined by Mr. Merrill.
94. *Cladonia ochrochlora ceratodes* Flk. Vaughns in shaded places on earth, May, 1913, & Dec. 2, 1914; old log near marsh north of Glen Lake, Aug. 24, 1916; determined by Mr. Merrill.
95. *Cladonia ochrochlora coniocraea* (Flk.) Merrill & Burnh., n. comb. Hulets Lg. (Jelliffe); southern W. Fort Ann, determined by Dr. Eckfeldt in part; Ballston Lake; old stumps near Shushan. (*Cladonia fimbriata coniocraea* (Flk.) Wainio, which includes plants formerly known as *C. fimbriata tubaeformis* Fr. in sense of Tuckerman.).
96. *Cladonia papillaria* (Ehrh.) Hoffm. Sterile soil, Ballston (Peck), N.Y. State Mus. Rep. 32. 92. 1879. Peaked Rock, June 15, 1907.
97. *Cladonia parasitica* (Hoffm.) Shushan on old pine stump, Oct. 1, 1916 and rotten wood, May 20, 1907 (Dobbin). (*Cladonia delicata* (Ach.) Flk.)
98. *Cladonia pyxidata* (L.) Hoffm. A composite species. (E. Galway) N.Y. (Burt), reported by Dr. Fink in THE BRYOLOGIST 10: 59. July, 1907. Hulets Lg. (Jelliffe); Horicon and Dresden Station (Peck); Shushan (Dobbin); Vaughns and elsewhere.
99. *Cladonia pyxidata chlorophaea* Flk. Rich's swamp near Shushan on old stump, Aug. 9, 1906 (Dobbin); coniferous stumps, Fred Vaughn's woods, Oct. 31, 1915; both collections determined by Mr. Merrill.
100. *Cladonia pyxidata neglecta* (Flk.) Mass. The common variety of this composite species growing on old stumps and rocks. Southern W. Fort Ann; Vaughns; several collections determined by Mr. Merrill.

[To be Continued]